

IN RE: APPLICATION OF SMALLEY ET AL.  
PRELIMINARY AMENDMENT ACCOMPANYING REQUEST FOR FILING DIVISIONAL APPLICATION UNDER  
37 C.F.R. § 1.53(b)

**AMENDMENTS****In the Title**

Please amend the title by replacing the present title with the following:

A1 ~~W~~METHOD FOR FORMING AN ARRAY OF SINGLE-WALL CARBON NANOTUBES  
AND COMPOSITIONS THEREOF.

**In the Abstract**

Please amend the abstract by replacing the present abstract with the following:

A2  
Sub B1)  
This invention relates generally to forming an array of single-wall carbon nanotubes (SWNT) and compositions thereof. In one embodiment, a homogeneous population of SWNT molecules is used to produce a substantially two-dimensional array made up of single-walled nanotubes aggregated in substantially parallel orientation to form a monolayer extending in directions substantially perpendicular to the orientation of the individual nanotubes. Using SWNT molecules of the same type and structure provides a homogeneous array. By using different SWNT molecules, either a random or ordered heterogeneous structure can be produced by employing successive reactions after removal of previously masked areas of a substrate. In one embodiment, SWNT molecules may be linked to a substrate through a linker moiety such as -S-, -S-(CH<sub>2</sub>)<sub>n</sub>-, -NH-, -SiO<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>NH- or the like.

**In the Specification**

Please amend the specification as noted on page 5, paragraph 11 of the Request by inserting before the first line of the specification the following:

**UNRELATED APPLICATIONS**

A3  
Sub B2)  
This application is a division of co-pending prior U.S. patent application Serial No. 09/380,545, filed on September 3, 1999, entitled "CARBON FIBERS FORMED FROM

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Sub B2)  
 13  
 SINGLE-WALL CARBON NANOTUBES," which is the 35 U.S.C. § 371 national application of International Application Number PCT/US98/04513 filed on March 6, 1998, which designated the United States, claiming priority to: provisional U.S. patent application Serial Number 60/067,325, filed on December 5, 1997; provisional U.S. patent application Serial Number 60/064,531, filed on November 5, 1997; provisional U.S. patent application Serial Number 60/063,675, filed on October 29, 1997; provisional U.S. patent application Serial Number 60/055,037, filed on August 8, 1997; provisional U.S. patent application Serial Number 60/047,854, filed on May 29, 1997; and provisional U.S. patent application Serial Number 60/040,152, filed on March 7, 1997. Each of the foregoing applications is commonly assigned to the assignee of the present invention and is hereby incorporated herein by reference in its entirety.

This application discloses subject matter related to the subject matter of U.S. patent application Serial Number 10/000,746, filed on November 30, 2001 in the name of Daniel T. Colbert et al., entitled "MACROSCOPICALLY MANIPULABLE NANOSCALE DEVICES MADE FROM NANOTUBE ASSEMBLIES," which application is commonly assigned to the assignee of the present invention.

### In the Claims

Please amend the claims as follows:

A. Please cancel claims 1-30 and 34-162 without prejudice or disclaimer to the subject matter thereof.

B. Please amend claim 33 as follows:

A4  
 33. (Amended) The method of claim 32 wherein said linking moiety is selected from the group consisting of -S-, -S-(CH<sub>2</sub>)<sub>n</sub>-NH-, and -SiO<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>NH- [SiO<sub>3</sub>(CH<sub>2</sub>)<sub>3</sub>NH<sub>3</sub>].

C. Please add the following new claims 163-188:

A5  
 163. (New) A method for forming a large array comprising: